

CLAIMS

Please amend the claims as follows and enter new claims 32-39 for consideration.

1. (Currently amended) A method facilitating the configuration of parameters controlling utilization of a network resource, comprising the steps of:

monitoring utilization of a network resource with respect to a plurality of utilization classes;

displaying the most significant utilization classes based on a network statistic;
and,

facilitating association of a displayed utilization class with a network resource utilization control parameter operative to control utilization of the network resource, wherein facilitating association includes providing a user interface allowing for selection of a displayed utilization class and a desired network resource utilization control parameter, ~~and wherein the user interface displays a predefined set of control parameters selectable by a user.~~

2. (Original) The method of claim 1 further comprising the step of:

facilitating selection of additional utilization classes not presented in the displaying step and association of control parameters to the additional utilization classes.

Claim 3 (Canceled)

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4. (Original) The method of claim 2 wherein the facilitating step comprises the steps of

providing a user interface allowing for selection of a displayed utilization class and a desired control parameter; and

wherein the user interface allows for selection of additional utilization classes and configuration of desired allocations of the network resource for selected additional utilization classes.

5. (Original) The method of claim 1 further comprising the step of

upon selection by a user, associating a selected utilization class with control parameter selected by the user.

6. (Original) The method of claim 1 wherein the displaying step further comprises

providing a user interface that displays the most significant utilization classes based on a utilization statistic;

wherein the user interface allows for selection of a displayed utilization class and a desired control parameter.

7. (Original) The method of claim 6 wherein the user interface further allows for selection of additional utilization classes not presented in the displaying step and configuration of desired control parameters for selected additional utilization classes.

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8. (Original) The method of claim 1 wherein the most significant utilization classes are displayed in an order relative to corresponding values of the network statistic.

9. (Original) The method of claim 1 wherein the most significant utilization classes are displayed in descending order relative to corresponding values of the network statistic.

10. (Original) The method of claim 1 wherein the most significant utilization classes are displayed in ascending order relative to corresponding values of the network statistic.

11. (Original) The method of claim 6 wherein the user interface displays the most significant utilization classes in an order relative to corresponding values of the network statistic.

12. (Original) The method of claim 6 wherein the user interface displays the most significant utilization classes in descending order relative to corresponding values of the network statistic.

13. (Original) The method of claim 6 wherein the user interface displays the most significant utilization classes in ascending order relative to corresponding values of the network statistic.

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14. (Original) The method of claim 1 further comprising the steps of ~~providing a set of selectable network statistics;~~
providing a set of selectable network statistics;
receiving a selected utilization statistic from a user; and,
wherein the displaying step comprises
displaying the most significant utilization classes based on the selected
network statistic.

Claim 15 (Canceled)

16. (Original) The method of claim 1 wherein the network statistic is a utilization
statistic.
17. (Original) The method of claim 1 wherein the network statistic is computed over
a given analysis interval; and wherein the method further comprises the steps of:
allowing for selection of an analysis interval.
18. (Currently amended) A method facilitating the configuration of bandwidth
management parameters, comprising the step of:
monitoring bandwidth utilization with respect to a plurality of traffic classes;
displaying the most significant traffic classes based on a network statistic; and,

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facilitating association of a displayed traffic class with a bandwidth utilization control wherein ~~facilitating association includes displaying a predefined set of selectable bandwidth control.~~

19. (Original) The method of claim 18 further comprising the step of:

facilitating selection of additional traffic classes not presented in the displaying step and association of bandwidth utilization controls to the additional traffic classes.

20. (Previously presented) The method of claim 18 wherein each bandwidth control category maps to a set of bandwidth utilization controls.

21. (Original) The method of claim 18 wherein the bandwidth utilization control is implemented by an aggregate data flow bandwidth utilization control.

22. (Original) The method of claim 18 wherein the bandwidth utilization control is implemented by a per-flow bandwidth utilization control.

23. (Original) The method of claim 18 wherein the bandwidth utilization control is implemented by at least one aggregate data flow bandwidth utilization control and at least one per-flow bandwidth utilization control.

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24. (Original) The method of claim 18 wherein the monitoring step further comprises the step of

automatically creating new traffic classes in response to data flows.

25. (Original) The method of claim 18 wherein the network statistic is computed over a given analysis interval; and wherein the method further comprises the steps of:

allowing for selection of an analysis interval.

26. (Currently amended) An apparatus allowing for the management of bandwidth utilization across an access link, comprising:

a traffic discovery engine operative to identify traffic classes corresponding to data flows traversing an access link; wherein the traffic discovery engine is further operative to measure bandwidth utilization across the access link with respect to a plurality of traffic classes in relation to at least one bandwidth utilization statistic;

a bandwidth control mechanism operative to enforce bandwidth utilization controls on data flows associated with corresponding traffic classes; and

a user interface module operative to display the most significant traffic classes based on a bandwidth utilization statistic; and wherein the user interface module facilitates association of a bandwidth utilization control to a selected traffic class; and ~~wherein the user interface module is operative to display a predefined set of selectable bandwidth control categories.~~

27. (Original) The apparatus of claim 26 wherein the bandwidth utilization statistic is selectable by a user.
28. (Original) The apparatus of claim 26 wherein the bandwidth utilization statistic is computed over an analysis interval.
29. (Original) The apparatus of claim 28 wherein the analysis interval is selectable by a user.
30. (Original) The apparatus of claim 26 wherein the traffic discovery engine is further operative to create new traffic classes in response to data flows.
31. (Original) The apparatus of claim 26 wherein the user interface allows for the display of additional traffic classes.
32. (New) The method of claim 1 wherein displaying the most significant utilization classes are further based on a minimum threshold percentage of the network resource.
33. (New) The method of claim 18 wherein displaying the most significant traffic classes are further based on a minimum threshold percentage of the bandwidth utilization.

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34. (New) The apparatus of claim 26 wherein display the most significant traffic classes are further based on a minimum threshold percentage of the bandwidth utilization.

35. (New) The method of claim 1 wherein the facilitating step comprises the steps of
providing a user interface allowing for selection of a displayed utilization class and a desired parameter.

36. (New) The method of claim 35 wherein the network statistic is a utilization statistic.

37. (New) The method of claim 1 wherein the control parameter is one of a plurality of control parameters, and wherein the plurality of control parameters are hierarchically inter-related such that changing the control parameter of the displayed utilization class to a higher-ranked or a lower-ranked control parameter causes a corresponding increase or decrease of priority for the network resource.

38. (New) The method of claim 18 wherein the bandwidth utilization control is one of a plurality of bandwidth utilization controls, and wherein the plurality of bandwidth utilization controls are hierarchically inter-related such that changing the bandwidth utilization control of the displayed traffic class to a higher-ranked or a lower-ranked bandwidth utilization control causes a corresponding increase or decrease of priority for the bandwidth utilization.

39. (New) The apparatus of claim 26 wherein the bandwidth utilization control is one of a plurality of bandwidth utilization controls, and wherein the plurality of bandwidth utilization controls are hierarchically inter-related such that changing the bandwidth utilization control of the selected traffic class to a higher-ranked or a lower-ranked bandwidth utilization control causes a corresponding increase or decrease of priority for the bandwidth utilization.

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